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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2007; month=11; day=29; hr=17; min=3; sec=36; ms=758;]

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Application No: 10534571

Version No: 1.1

Input Set:**Output Set:****Started:** 2007-11-29 17:02:45.660**Finished:** 2007-11-29 17:02:47.073**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 413 ms**Total Warnings:** 26**Total Errors:** 0**No. of SeqIDs Defined:** 27**Actual SeqID Count:** 27

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2007-11-29 17:02:45.660
Finished: 2007-11-29 17:02:47.073
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Total Warnings: 26
Total Errors: 0
No. of SeqIDs Defined: 27
Actual SeqID Count: 27

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> WASHINGTON UNIVERSITY

<120> HIGHLY PERMISSIVE CELL LINES FOR HEPATITIS C VIRUS
RNA REPLICATION

<130> 56029-54474

<140> 10/534,571

<141> 2005-10-11

<150> PCT/US03/036634

<151> 2003-11-13

<150> 60/426,256

<151> 2002-11-13

<160> 27

<170> PatentIn Ver. 3.3

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<220>

<223> Description of Artificial Sequence: Synthetic
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21

<210> 2

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
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<210> 3

<211> 24

<212> DNA

<213> Artificial Sequence

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<210> 4
 <211> 32
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<220>
 <223> Description of Artificial Sequence: Synthetic
 oligodeoxynucleotide

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<210> 5
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligodeoxynucleotide

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<210> 6
 <211> 79
 <212> DNA
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic
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 ccagctgtct gcgccttc 79

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 <211> 49
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 <213> Artificial Sequence

<220>
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<210> 8
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
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<211> 35
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<213> Artificial Sequence

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<220>
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<210> 11
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<212> DNA
<213> Artificial Sequence

<220>
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<210> 12
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<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
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<210> 13
<211> 21
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<210> 14
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<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligodeoxynucleotide

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ttcgtgctca ttattatcgt gtttttcaaa gg 92

<210> 15
<211> 80
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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tacagctgtc tgcgccttc 80

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<212> DNA
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<212> DNA
<213> Artificial Sequence

<220>
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accagctgtc tgcgccttcc 80

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<213> Artificial Sequence

<220>
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aacagctgtc tgcgccttcc 80

<210> 19
<211> 80
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligodeoxynucleotide

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<210> 20
<211> 80
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
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<210> 21
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<212> DNA
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<220>
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oligodeoxynucleotide

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agggtcgata c 71

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oligodeoxynucleotide

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tcc 63

<210> 24
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<212> DNA
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<400> 24

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<211> 51

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<400> 25

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<210> 26

<211> 51

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<210> 27

<211> 3010

<212> PRT

<213> Hepatitis C virus

<400> 27

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Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala Tyr
180 185 190

Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys Ser
195 200 205

Asn Ala Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr Pro
210 215 220

Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp Val
225 230 235 240

Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr Thr
245 250 255

Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Leu Cys
260 265 270

Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val Ala
275 280 285

Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp Cys
290 300

Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala Trp

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Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser Gln						
	325		330		335	
Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala His						
	340		345		350	
Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn Trp						
	355		360		365	
Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly Gly						
	370		375		380	
Thr Tyr Val Thr Gly Gly Thr Met Ala Lys Asn Thr Leu Gly Ile Thr						
385		390		395		400
Ser Leu Phe Ser Pro Gly Ser Ser Gln Lys Ile Gln Leu Val Asn Thr						
	405		410		415	
Asn Gly Ser Trp His Ile Asn Arg Thr Ala Leu Asn Cys Asn Asp Ser						
	420		425		430	
Leu Asn Thr Gly Phe Leu Ala Ala Leu Phe Tyr Val His Lys Phe Asn						
	435		440		445	
Ser Ser Gly Cys Pro Glu Arg Met Ala Ser Cys Ser Pro Ile Asp Ala						
	450		455		460	
Phe Ala Gln Gly Trp Gly Pro Ile Thr Tyr Asn Glu Ser His Ser Ser						
465		470		475		480
Asp Gln Arg Pro Tyr Cys Trp His Tyr Ala Pro Arg Pro Cys Gly Ile						
	485		490		495	
Val Pro Ala Ala Gln Val Cys Gly Pro Val Tyr Cys Phe Thr Pro Ser						
	500		505		510	
Pro Val Val Val Gly Thr Thr Asp Arg Phe Gly Val Pro Thr Tyr Ser						
	515		520		525	
Trp Gly Glu Asn Glu Thr Asp Val Leu Leu Leu Asn Asn Thr Arg Pro						
530		535		540		

Pro Gln Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Ser Thr Gly Phe
545 550 555 560

Thr Lys Thr Cys Gly Gly Pro Pro Cys Asn Ile Gly Gly Ile Gly Asn
565 570 575

Lys Thr Leu Thr Cys Pro Thr Asp Cys Phe Arg Lys His Pro Glu Ala
580 585 590

Thr Tyr Thr Lys Cys Gly Ser Gly Pro Trp Leu Thr Pro Arg Cys Leu
595 600 605

Val His Tyr Pro Tyr Arg Leu Trp His Tyr Pro Cys Thr Val Asn Phe
610 615 620

Thr Ile Phe Lys Val Arg Met Tyr Val Gly Gly Val Glu His Arg Leu
625 630 635 640

Glu Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asn Leu Glu Asp
645 650 655

Arg Asp Arg Ser Glu Leu Ser Pro Leu Leu Leu Ser Thr Thr Glu Trp
660 665 670

Gln Val Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala Leu Ser Thr Gly
675 680 685

Leu Ile His Leu His Gln Asn Val Val Asp Val Gln Tyr Leu Tyr Gly
690 695 700

Ile Gly Ser Ala Val Val Ser Phe Ala Ile Lys Trp Glu Tyr Val Leu
705 710 715 720

Leu Leu Phe Leu Leu Leu Ala Asp Ala Arg Val Cys Ala Cys Leu Trp
725 730 735

Met Met Leu Leu Ile Ala Gln Ala Glu Ala Ala Leu Glu Asn Leu Val
740 745 750

Val Leu Asn Ala Ala Ser Val Ala Gly Ala His Gly Ile Leu Ser Phe
755 760 765

Leu Val Phe Phe Cys Ala Ala Trp Tyr Ile Lys Gly Arg Leu Val Pro
 770 775 780

Gly Ala Ala Tyr Ala Leu Tyr Gly Val Trp Pro Leu Leu Leu Leu Leu
 785 790 795 800

Leu Ala Leu Pro Pro Arg Ala Tyr Ala Met Asp Arg Glu Met Ala Ala
 805 810 815

Ser Cys Gly Gly Ala Val Phe Val Gly Leu Ile Leu Leu Thr Leu Ser
 820 825 830

Pro His Tyr Lys Leu Phe Leu Ala Arg Leu Ile Trp Trp Leu Gln Tyr
 835 840 845

Phe Ile Thr Arg Ala Glu Ala His Leu Gln Val Trp Ile Pro Pro Leu
 850 855 860

Asn Val Arg Gly Gly Arg Asp Ala Val Ile Leu Leu Thr Cys Ala Ile
 865 870 875 880

His Pro Glu Leu Ile Phe Thr Ile Thr Lys Ile Leu Leu Ala Ile Leu
 885 890 895

Gly Pro Leu Met Val Leu Gln Ala Gly Ile Thr Lys Val Pro Tyr Phe
 900 905 910

Val Arg Ala His Gly Leu Ile Arg Ala Cys Met Leu Val Arg Lys Val
 915 920 925

Ala Gly Gly His Tyr Val Gln Met Ala Leu Met Lys Leu Ala Ala Leu
 930 935 940

Thr Gly Thr Tyr Val Tyr Asp His Leu Thr Pro Leu Arg Asp Trp Ala
 945 950 955 960

His Ala Gly Leu Arg Asp Leu Ala Val Ala Val Glu Pro Val Val Phe
 965 970 975

Ser Asp Met Glu Thr Lys Val Ile Thr Trp Gly Ala Asp Thr Ala Ala
 980 985 990

Cys Gly Asp Ile Ile Leu Gly Leu Pro Val Ser Ala Arg Arg Gly Arg
995 1000 1005

Glu Ile His Leu Gly Pro Ala Asp Ser Leu Glu Gly Gln Gly Trp
1010 1015 1020

Arg Leu Leu Ala Pro Ile Thr Ala Tyr Ser Gln Gln Thr Arg Gly
1025 1030 1035

Leu Leu Gly Cys Ile Ile Thr Ser Leu Thr Gly Arg Asp Arg Asn
1040 1045 1050

Gln Val Glu Gly Glu Val Gln Val Val Ser Thr Ala Thr Gln Ser
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Phe Leu Ala Thr Cys Val Asn Gly Val Cys Trp Thr Val Tyr His
1070 1075 1080

Gly Ala Gly Ser Lys Thr Leu Ala Gly Pro Lys Gly Pro Ile Thr
1085 1090 1095

Gln Met Tyr Thr Asn Val Asp Gln Asp Leu Val Gly Trp Gln Ala
1100 1105 1110

Pro Pro Gly Ala Arg Ser Leu Thr Pro Cys Thr Cys Gly Ser Ser
1115 1120 1125

Asp Leu Tyr Leu Val Thr Arg His Ala Asp Val Ile Pro Val Arg
1130 1135 1140

Arg Arg Gly Asp Ser Arg Gly Ser Leu Leu Ser Pro Arg Pro Val
1145 1150 1155

Ser Tyr Leu Lys Gly Ser Ser Gly Gly Pro Leu Leu Cys Pro Ser
1160 1165 1170

Gly His Ala Val Gly Ile Phe Arg Ala Ala Val Cys Thr Arg Gly
1175 1180 1185

Val Ala Lys Ala Val Asp Phe Val Pro Val Glu Ser Met Glu Thr
1190 1195